



TREATY

REC'D 2 3 NOV 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTARY ITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	(**************************************				
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IEC040029PCT	FOR FURTHER A	CTION Se	ee Form PCT/IPEA/416		
International application No.	International filing da	te (day/month/year)	Priority date (day/month/year)		
PCT/CN2004/000728		4 (02.07.04)	03.Jul. 2003 (03.07.03)		
International Patent Classification (IPC) or	national classification a	nd IPC	03.341. 2003 (03.07.03)		
IPC ⁷ C07H 17/07, A61K 31/7048, A6	61P 9/10, A61P 3/10,	A61P 25/32			
		30,02			
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Applicant					
INSTITUTE OF RADIATION	N MEDICINE, ACADE	MY OF MILITARY MEDI	CAL SCIENCES, PLA ET AL.		
1. This report is the international prolimi		TO MILLIANCE WILDS	CAL SCIENCES, PLA ET AL.		
under Article 35 and transmitted to the	nary examination repore applicant according to	t, established by this Intern Article 36.	ational Preliminary Examining Authority		
2. This REPORT consists of a total of	3		_		
This report is also accompanied by AN		sheets, including this	cover sheet.		
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a. (sent to the applicant and to t	he International Bureau) a total of	heets, as follows:		
sheets of the description, sheets containing rectific	, claims and/or drawing	g wibiah hama l	and are the basis of this report and/or 6 and Section 607 of the Administrative		
Instructions).	annoxized by th	is Authority (see Rule 70.1	6 and Section 607 of the Administrative		
sheets which supersede e	earlier sheets, but which	this Authority considers	contain an amendment that goes beyond		
Box.	ernational application a	s filed, as indicated in iter	contain an amendment that goes beyond in 4 of Box No. I and the Supplemental		
b. (sent to the International containing a sequence listing	Bureau only) a total	of (indicate two and an			
	(====================================	diministrative histractions).		
4. This report contains indications relating	ng to the following item	5 :			
Box No. I Basis of the rep	port				
Box No. II Priority					
☐ Box No. III Non-establishme	lishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;					
citations and expl	lanations supporting suc	h statement	maye step of middstriar applicating;		
Box No. VI Certain documen					
☐ Box No. VII Certain defects in	n the international appli	cation			
<u> </u>	tions on the internationa				
Date of submission of the demand					
01. Jan 2005 (01.0.1)2005	5)	Date of completion of this			
Name and mailing address of the IPEA/CN			t. 2005 (12.10.2005)		
The State Intellectual Property Office	the PR China	Authorized officer	46.11		
6 Xitucheng Rd., Jimen Bridge, Haidian Di	strict, Beijing, China		EXuchi		
100088 Facsimile No. 86-10-62019451			L 26 %		
Form PCT/IPEA/409 (cover sheet) (April 2003	5	Telephone No. (86-10)6	2085562		
Cover sheet) (April 200)	וכ				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/CN2004/000728

Box No. I Basis of the report	
and to me imaguage, this report is based on:	
- Pproducti in the language in which it was filed	
are international application into	, which is the language of a
translation furnished for the purposes of:	
international search (Rules 12.3(a) and 23.1(b))	
□publication of the international application (Rule 12.4(a))	!
international preliminary examination (Rules 55.2(a) and/or 55.3(a))	
2. With regard to the elements of the intermedianal and the second secon	
l application, this report is based of	on (replacement sheets which have been furnished
to the receiving Office in response to an invitation under Article 14 are referred t annexed to this report):	to in this report as "originally filed" and are not
The second to this report,	
the international application as originally filed/furnished	
the description:	
pages .	as originally filed/furnished
pages • received by this	Authority on
pages • received by this	Authority on
the claims:	
pages	
pages *	as originally filed/furnished
pages * as amend	led (together with any statement)under Article 19
pages • received by this	The state of the s
	s Authority on
the drawings:	
pages *	as originally filed/furnished
received by this	
received by this	Authority on
a sequence listing and/or any related table(s) - see Supplemental Box Relating	I to Seguence I istin -
	s to sequence Listing.
3. The amendments have resulted in the cancellation of:	
the description, pages	
the claims Nos	
the drawings shoots/6	
the sequence listing (specify):	
any table(s) related to sequence listing (specify):	
noing (specify).	
4. This report has been established as if (some of) the amendments annexed to this since they have been considered to as how a late to the since they have been considered to as how a late to the since they have been considered to the late to the since they have been considered to the late to the since they have been considered to the late to the since they have been considered to the since the since they	is report and listed believed a
since they have been considered to go beyond the disclosure as filed, as indic	cated in the Supplemental Park (But 2004)
1 1 41-3 1 1	i i
the claims Nos	
the drawings shoots/fire	
the sequence listing (specify):	
any table(s) related to sequence listing (specify):	
* If item 4 applies, some or all of those sheets may be marked "superseded."	
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/CN2004/000728

Statement:			
Novelty (N)	Claims	1-8	YES
	Claims		NO
Inventive step (IS)	Claims	_ 1-8	YES
	Claims		NO NO
Industrial applicability (IA)	Claims	1-8	YES
	Claims		NO NO

The following documents have been cited herein:

Document1: Yang Ruolin, et al., Journal of China Pharmaceutical University, 1999, Vol.30, No.2, p81-85

Document2: HOU Dian jie, et al., Chinese Journal of Medicinal Chemistry, 2002, Apr., Vol.12, No. 2, p103-104

Document3: CN1394603A

Documents 1-3 described puerarin derivatives, such as alkyl ester and ether of puerarin. However, the derivatives disclosed in the above documents are not included in general formula (I) set forth as claim 1 of this application. Moreover, D1-3 neither teach nor suggest the compounds of the claim 1 having alkylaminoalkoxyl substituents and the use thereof.

Thus, claim 1 is novel and not obvious from the description in those documents, meeting the criteria of novelty step set out in PCT Article 33(2) and inventive step set out in PCT Article 33(3).

In term of above, claims 2-8 meet the criteria of novelty set out in PCT Article 33(2) and inventive step set out in PCT Article 33(3).

Claims 1-8 meet the criteria of Industrial applicability set out in PCT Article 33(4).

